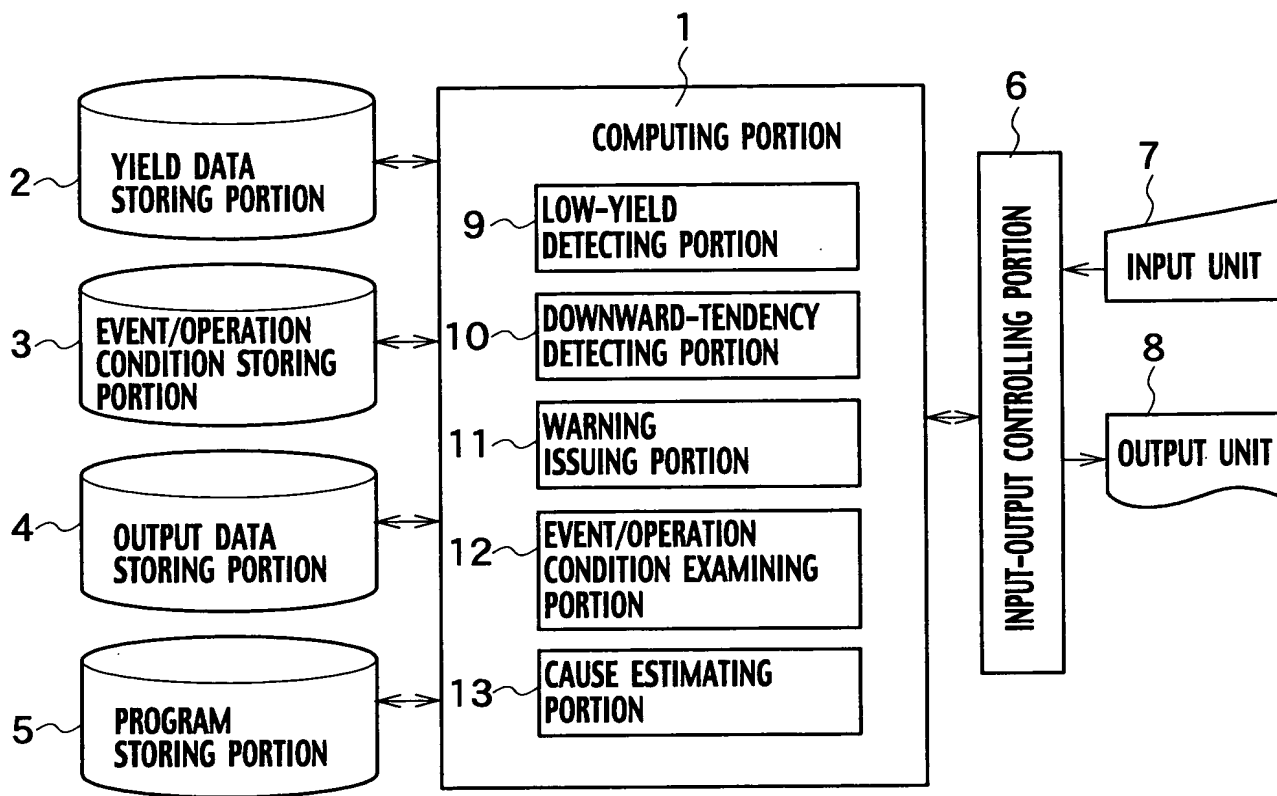


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FIG. 1



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FIG. 2

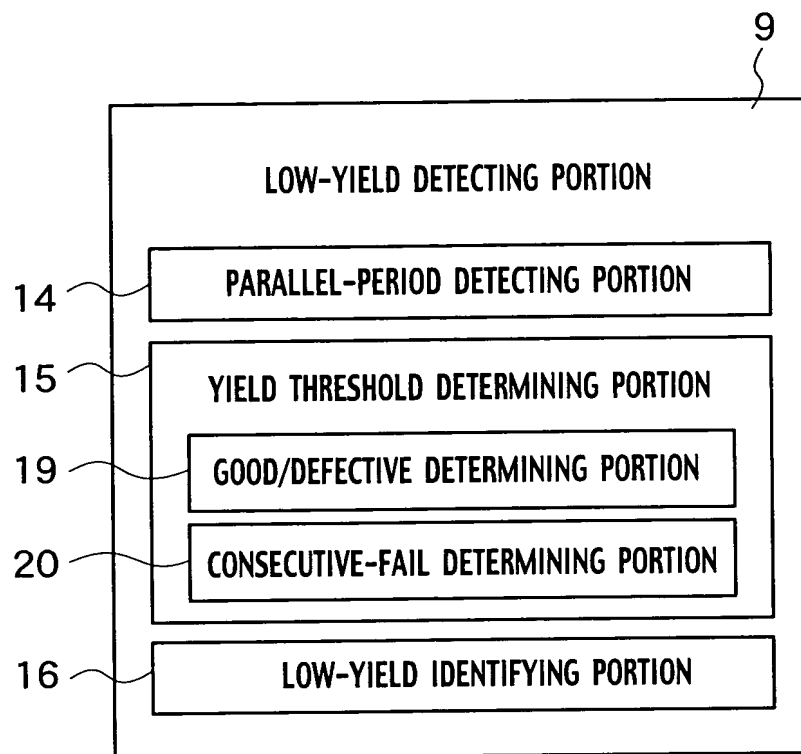
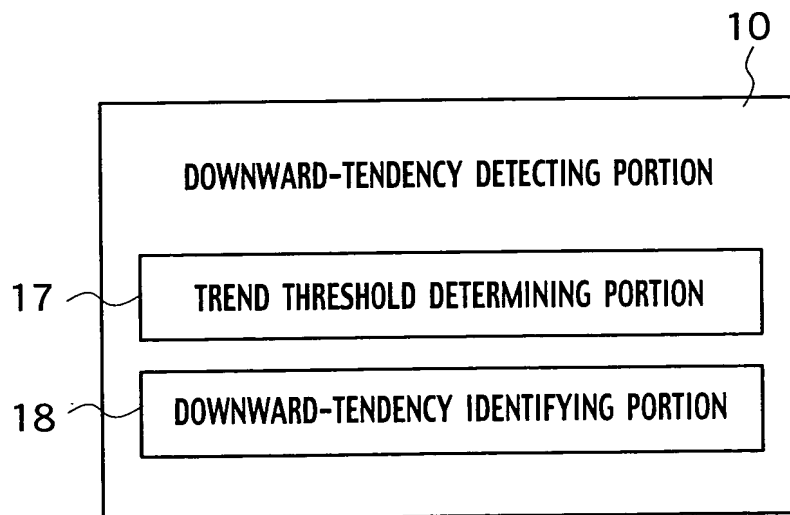


FIG. 3



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FIG. 4A

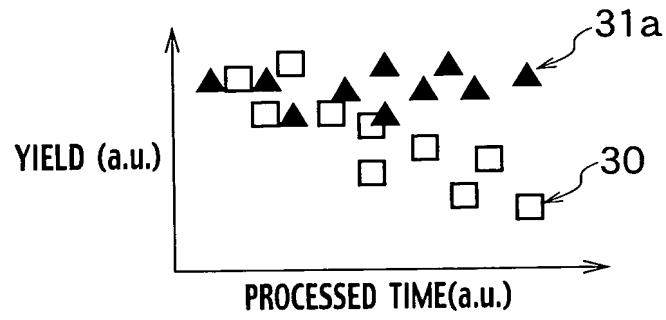


FIG. 4B

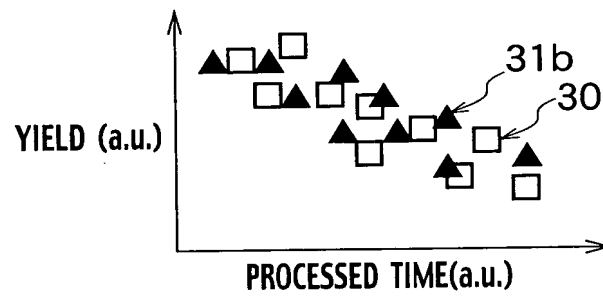
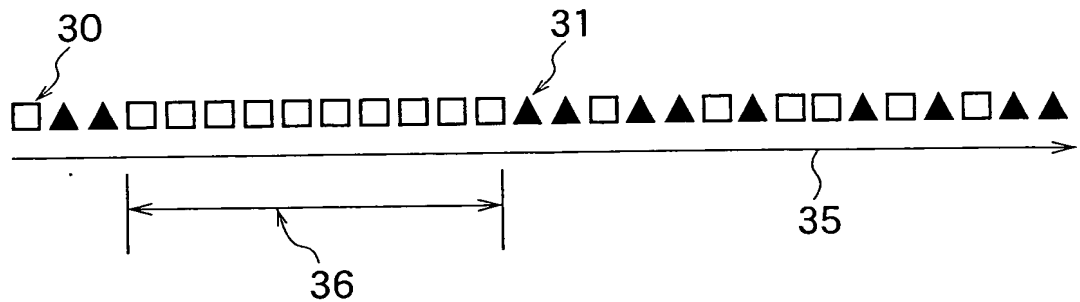
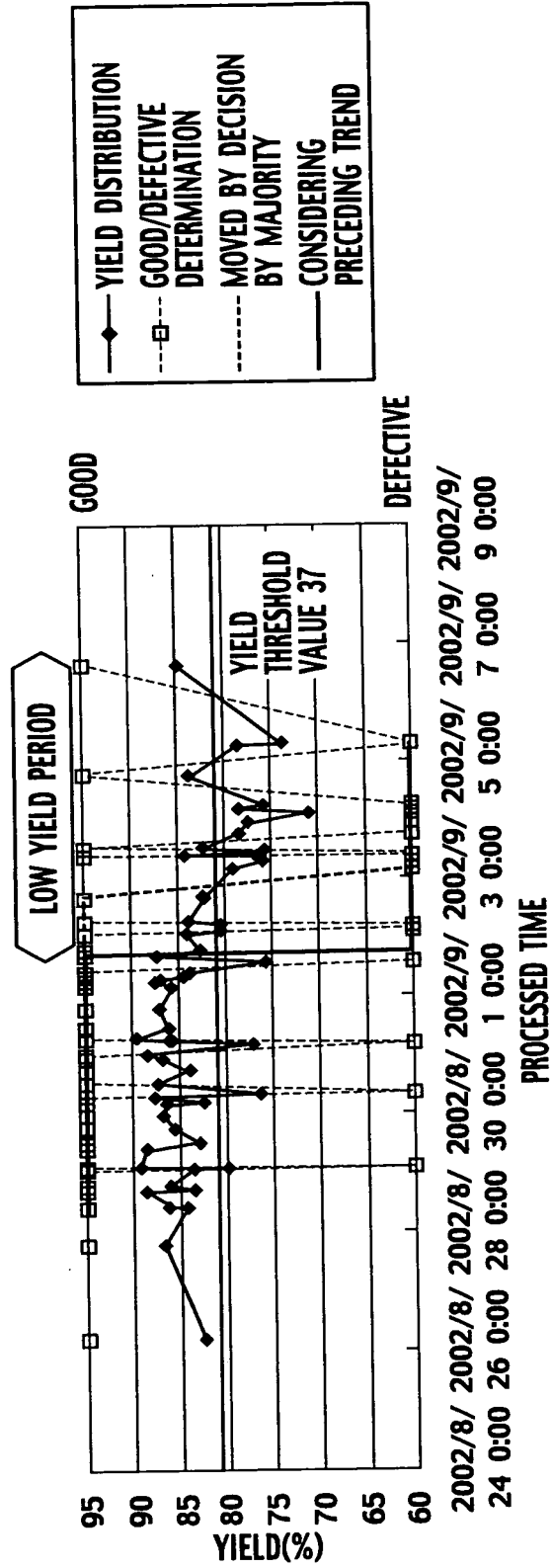


FIG. 5



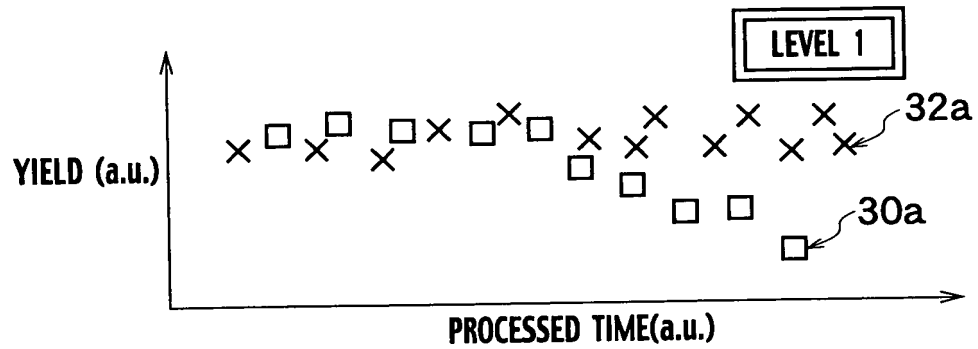
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FIG. 6

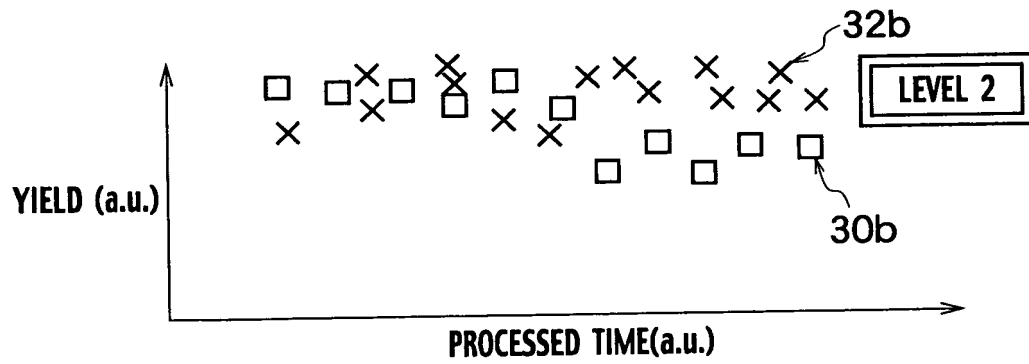


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**FIG. 7**



**FIG. 8**



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FIG. 9A

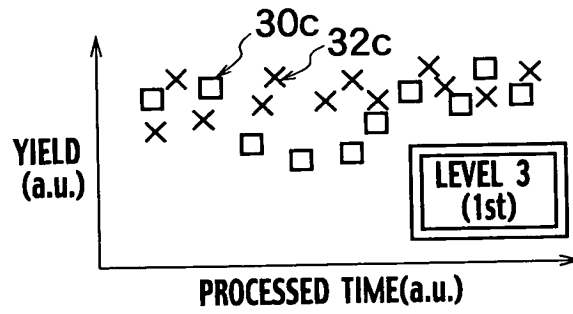


FIG. 9B

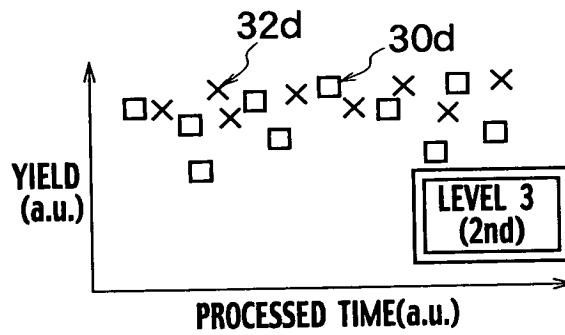
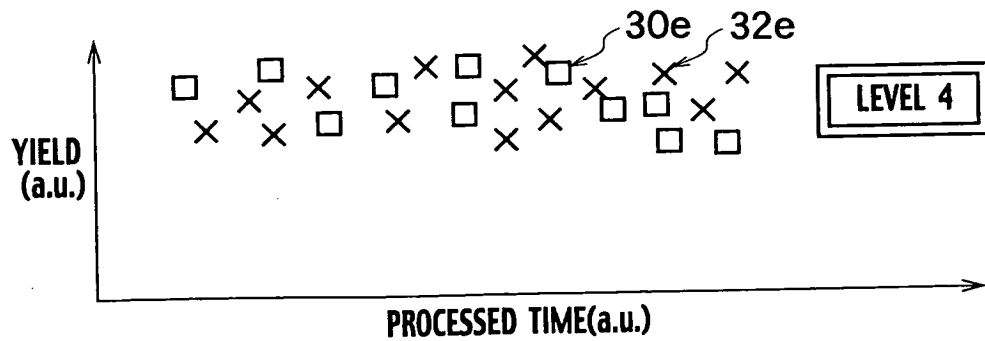
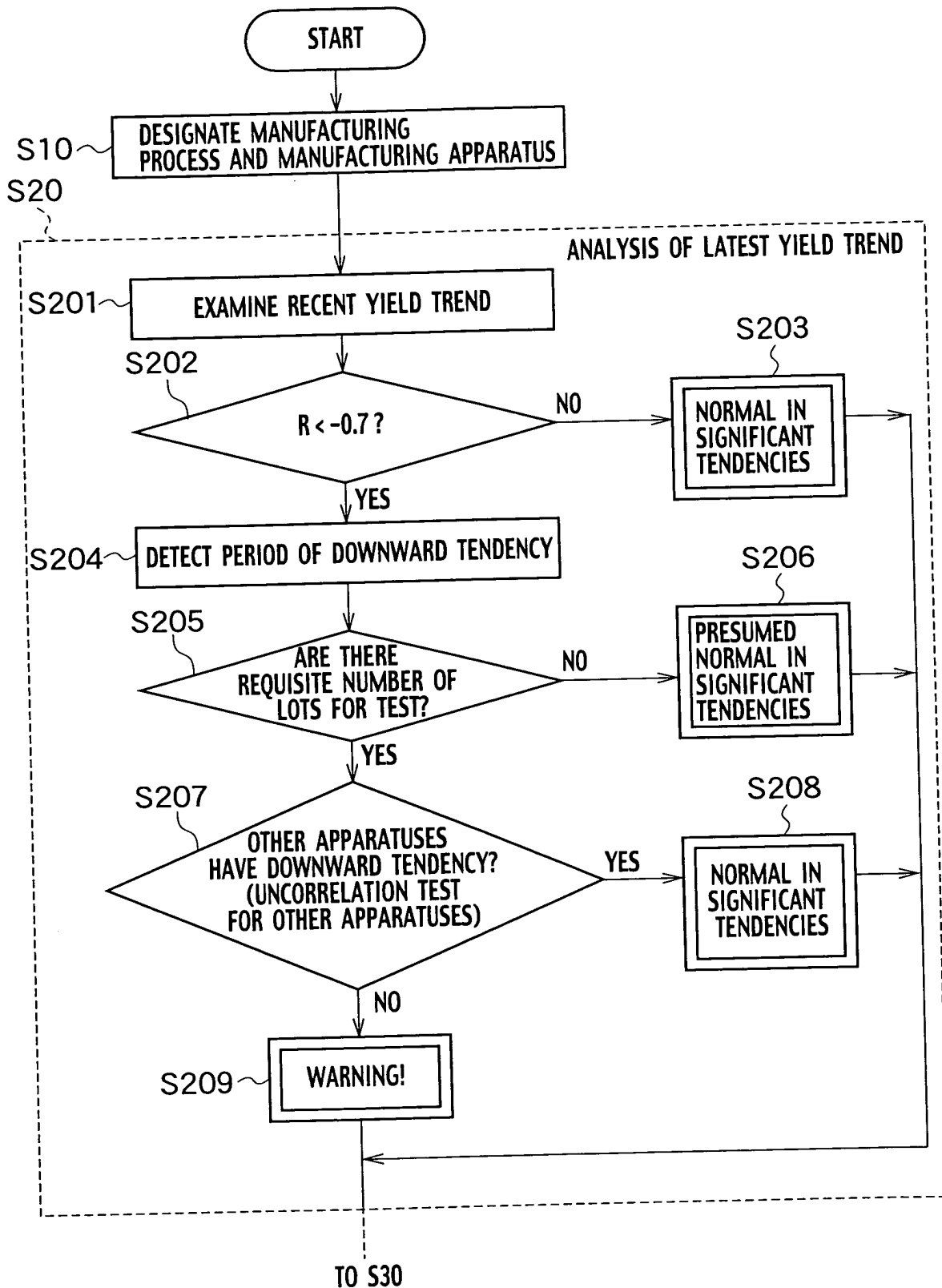


FIG. 10



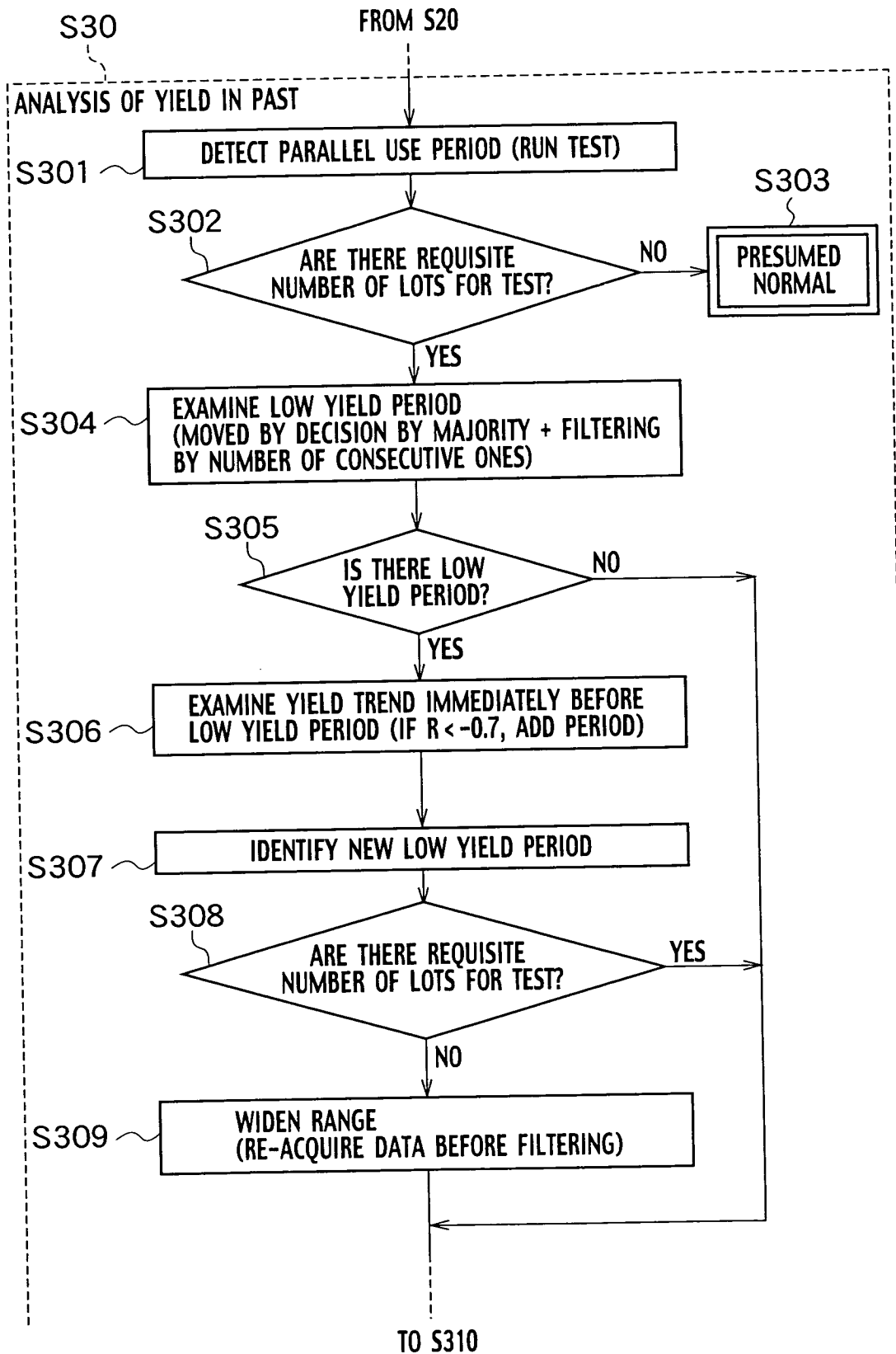
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FIG. 11



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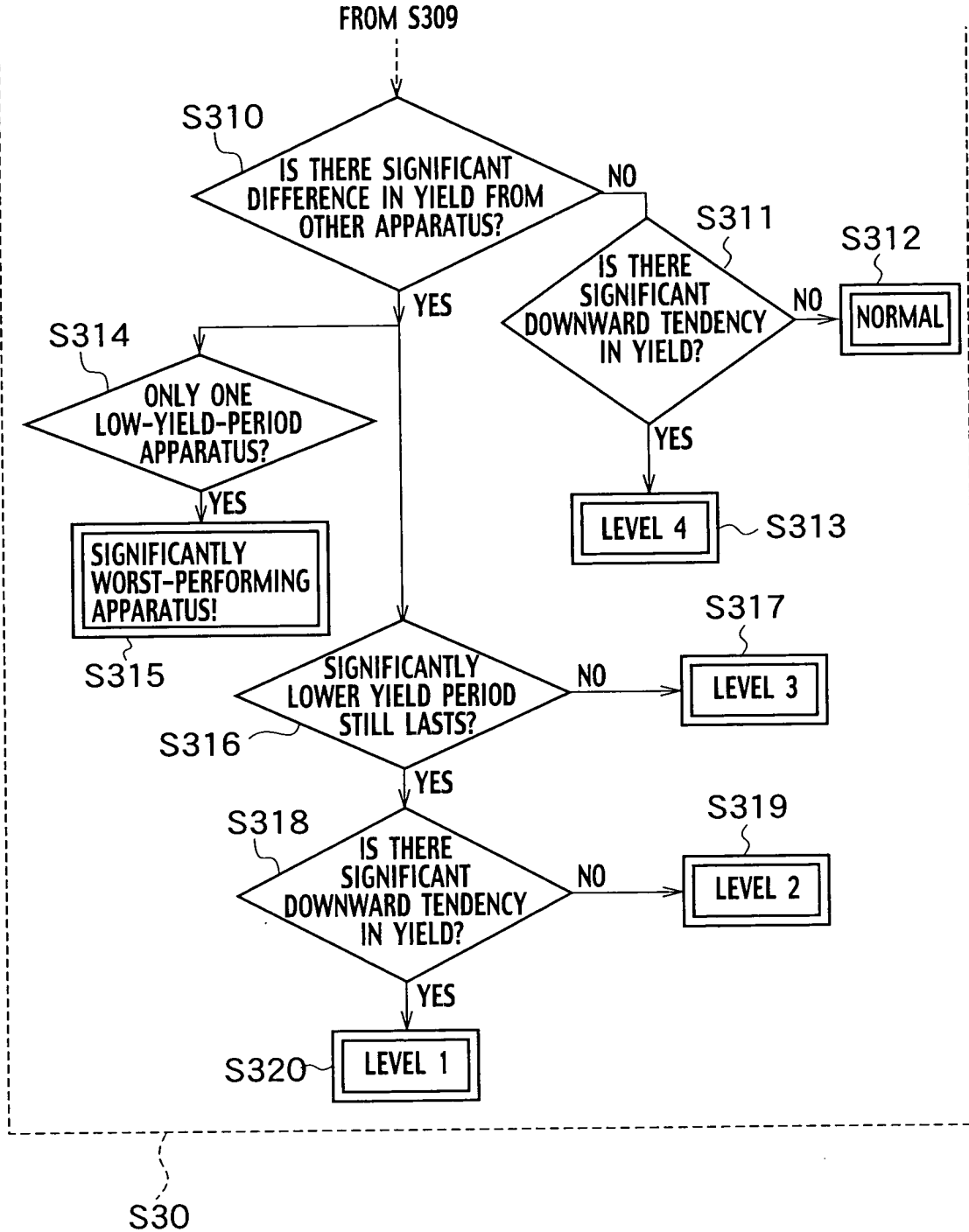
FIG. 12





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FIG. 13



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FIG. 14

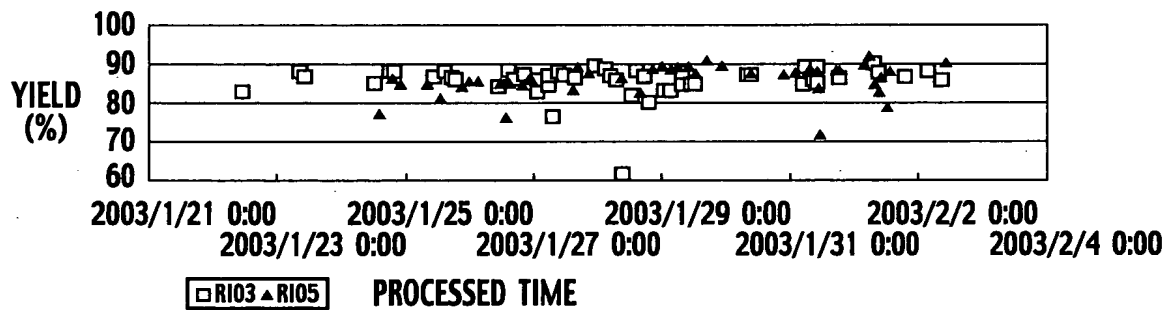
| PARAMETER                                    | PROCESS | APPARATUS | AVERAGE | MEDIAN | LOT | RESULT | P-VALUE<br>(SIGNIFICANT<br>DIFFERENCE FROM<br>OTHER APPARATUS) | SIGNIFICANT WORST<br>APPARATUS/NOT | SIGNIFICANTLY<br>LOWER YIELD<br>PERIOD | SIGNIFICANT<br>DOWNWARD<br>TENDENCY IN<br>RECENT YIELD | CORRELATION<br>COEFFICIENT R |
|--|---------|-----------|---------|--------|-----|--------|--|------------------------------------|--|--|------------------------------|
| ALL-BIT GOOD PRODUCT RATE                    | DR24    | DF10      | 85.77   | 86.619 | 92  | LEVEL3 | 0.001272916  | SIGNIFICANT WORST APPARATUS        | NONE                                   | NONE   |                              |
| ALL-BIT GOOD PRODUCT RATE                    | R4V4    | RI03      | 85.796  | 86.775 | 50  | LEVEL3 | 0.004284372  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| ALL-BIT GOOD PRODUCT RATE                    | CT24    | CP01      | 84.636  | 83.435 | 8   | LEVEL3 | 0.008150972  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| D/S YIELD                                    | AAA4    | AX06      | 92.662  | 93.223 | 15  | LEVEL2 | 0.009073151  | SIGNIFICANT WORST APPARATUS        | CONTINUED                              | NONE   |                              |
| D/S YIELD                                    | WGC2    | JB03      | 92.805  | 93.141 | 20  | LEVEL2 | 0.002312551  | SIGNIFICANT WORST APPARATUS        | CONTINUED                              | NONE   |                              |
| D/S YIELD                                    | DR24    | DF10      | 92.921  | 93.742 | 92  | LEVEL3 | 0.001645522  | SIGNIFICANT WORST APPARATUS        | NONE                                   | NONE   |                              |
| D/S YIELD                                    | OCS3    | QP44      | 92.781  | 92.805 | 16  | LEVEL3 | 0.001496344  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| D/S YIELD                                    | RM14    | RC04      | 92.631  | 93.456 | 34  | LEVEL3 | 0.009374769  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| D/S YIELD                                    | R4V4    | RI03      | 92.987  | 93.477 | 50  | LEVEL3 | 0.009740123  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| D/S YIELD                                    | PM44    | PV01      | 93.602  | 93.871 | 44  | LEVEL3 | 0.003759372  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| D/S YIELD                                    | CT24    | CP01      | 92.25   | 92.242 | 8   | LEVEL3 | 0.005575765  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| DC-Yield                                     | Q2V5    | QV63      | 98.402  | 98.474 | 29  | LEVEL3 | 0.008005144  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| FUNCTION YIELD                               | AAA4    | AX06      | 93.198  | 93.619 | 15  | LEVEL2 | 0.009658828  | SIGNIFICANT WORST APPARATUS        | CONTINUED                              | NONE   |                              |
| FUNCTION YIELD                               | DR24    | DF10      | 93.348  | 94.006 | 92  | LEVEL3 | 0.002022407  | SIGNIFICANT WORST APPARATUS        | NONE                                   | NONE   |                              |
| FUNCTION YIELD                               | OCS3    | QP44      | 93.191  | 93.256 | 16  | LEVEL3 | 0.002373451  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| ALL-BIT GOOD PRODUCT/DEFECTIVE PRODUCT RATIO | DR24    | DF10      | 14.23   | 13.381 | 92  | LEVEL3 | 0.001272916  | SIGNIFICANT WORST APPARATUS        | NONE                                   | NONE   |                              |
| ALL-BIT GOOD PRODUCT/DEFECTIVE PRODUCT RATIO | R4V4    | RI03      | 14.204  | 13.225 | 50  | LEVEL3 | 0.004284372  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| ALL-BIT GOOD PRODUCT/DEFECTIVE PRODUCT RATIO | CT24    | CP01      | 15.364  | 16.565 | 8   | LEVEL3 | 0.008150972  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| D/S DEFECTIVE PRODUCT RATE                   | AAA4    | AX06      | 7.338   | 6.773  | 15  | LEVEL2 | 0.009073151  | SIGNIFICANT WORST APPARATUS        | CONTINUED                              | NONE   |                              |
| D/S DEFECTIVE PRODUCT RATE                   | WGC2    | JB03      | 7.1945  | 6.8589 | 20  | LEVEL2 | 0.002312551  | SIGNIFICANT WORST APPARATUS        | CONTINUED                              | NONE   |                              |
| D/S DEFECTIVE PRODUCT RATE                   | DR24    | DF10      | 7.0786  | 6.2583 | 92  | LEVEL3 | 0.001645522  | SIGNIFICANT WORST APPARATUS        | NONE                                   | NONE   |                              |
| D/S DEFECTIVE PRODUCT RATE                   | OCS3    | QP44      | 7.2189  | 7.1952 | 16  | LEVEL3 | 0.001496344  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| D/S DEFECTIVE PRODUCT RATE                   | RM14    | RC04      | 7.3686  | 6.544  | 34  | LEVEL3 | 0.009374769  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| D/S DEFECTIVE PRODUCT RATE                   | R4V4    | RI03      | 7.0132  | 6.5225 | 50  | LEVEL3 | 0.009740123  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| D/S DEFECTIVE PRODUCT RATE                   | PM44    | PV01      | 6.3977  | 6.1289 | 44  | LEVEL3 | 0.003759372  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |
| D/S DEFECTIVE PRODUCT RATE                   | CT24    | CP01      | 7.7502  | 7.7578 | 8   | LEVEL3 | 0.005575765  | SIGNIFICANT WORST APPARATUS        | RECOVERED                              | NONE   |                              |

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**FIG. 15A**

|   |                                |                               |
|---|--------------------------------|-------------------------------|
| PROCESS   | R4V4                           |                               |
| APPARATUS   | RI03                           |                               |
| DETERMINATION   | LEVEL3                         |                               |
| p-VALUE<br>(SIGNIFICANT DIFFERENCE<br>FROM OTHER APPARATUS) | 0.004284372                    |                               |
| SIGNIFICANT WORST<br>APPARATUS/NOT                          | SIGNIFICANT WORST<br>APPARATUS |                               |
| SIGNIFICANTLY LOWER<br>YIELD PERIOD                         | RECOVERED                      |                               |
| SIGNIFICANT DOWNWARD<br>TENDENCY IN RECENT YIELD            | NONE                           | ←CORRELATION<br>COEFFICIENT R |

**FIG. 15B**



**FIG. 15C**

